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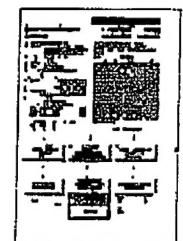
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>Title: **JP08217561A2: LIGHT-WEIGHT CALCIUM SILICATE FORMED BODY AND ITS PRODUCTION**

Derwent Title: Lightweight calcium silicate moulding for building materials - has specified porosity, interlayer strength and mean line surface roughness [\[Derwent Record\]](#)

Country: **JP Japan**

Kind: **A**



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1 page

Inventor: **ABE NOBUHIKO;
MONZEN HIROBUMI;**

Assignee: **CHICHIBU ONODA CEMENT CORP**
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Published / Filed: **1996-08-27 / 1995-02-13**

Application Number: **JP1995000047751**

IPC Code: **C04B 38/00; C04B 28/18; C04B 38/08; C04B 40/02;
C04B 28/18;**

ECLA Code: **C04B20/00D2; C04B28/18C;**

Priority Number: **1995-02-13 JP1995000047751**

Abstract: **PURPOSE:** To improve the resistance to freezing damage to a formed body by forming the formed body having a specified bulk density, predicted closed cell rate, interlayer strength and average linear surface roughness.

CONSTITUTION: A material contg. 15-40wt.% portland cement, 10-20% slaked lime, 10-35% diatomaceous earth and 15-55% high-strength closed hollow balloons such as a fly ash balloon having high contents of active silica and aluminum, having a pozzolana action and having $\leq 200\mu\text{m}$ diameter is used as the main raw material, and the CaO-to-SiO₂ molar ratio is controlled to 0.45-0.80. To the main raw material 5-7% pulp slurry, a reinforcing fiber such as carbon fiber and a thickener such as methylcellulose are added to form a slurry, and the slurry is dehydrated and press-formed. The formed body is allowed to stand for $\geq 24\text{hr}$, then cured and subjected to a hydrothermal synthesis to obtain a lightweight calcium silicate formed body having 0.4-0.9 bulk density, $\geq 15\%$ predicted closed cell rate shown by the expression (porosity = 1-bulk density/true sp.gr.), $\geq 5\text{kgf/cm}^2$ interlayer strength and $\leq 10\mu\text{m}$ average linear surface roughness according to JIS B0601.

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Family: **None**

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References:

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PDF	Patent	Pub.Date	Inventor	Assignee	Title
US6572697	US6572697	2003-06-03	Gleeson; James A.	James Hardie Research Pty Limited	Fiber cement building materials with low density additives

Other Abstract
Info:



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